Owner's Guide

Floor Boxes

85.2611.00

Warranty Information	
Serial Number	N/A
Model Number	N/A
Date Purchased	

Date of Service	Model/Description of Service	Technician's Initials

For service information contact your local authorized A-dec dealer.

Check with local codes and A.D.A. (Americans with Disabilities Act) Requirements for Installation of this product.

A-dec warrants its products and A-dec/W&H Synea handpieces against defects in material or workmanship for one year from time of delivery. All other handpiece instrumentation has a warranty period of six months. A-dec's sole obligation under the warranty is to provide parts for the repair, or at its option, to provide the replacement product (excluding labor). The buyer shall have no other remedy. (All special, incidental, and coincidental damages are excluded.) Written notice of breach of warranty must be given to A-dec within the warranty period. The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse.The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilization chemicals and processes. The warranty also does not cover light bulbs. Failure to follow instructions provided in A-dec's Operation and Maintenance Instructions (Owner's Guide) may void the warranty.

NO OTHER WARRANTIES AS TO
MERCHANTABILITY OR OTHERWISE ARE MADE.

a-dec

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OPERATION

About Your Floor Box

Your Cascade, recessed, or stainless steel floor box *(see Figure 1)* is mounted over the utilities on the floor or wall of the operatory. Located in the floor box are the air and water manual shutoff valves, filters, and pressure pre-regulators. You will find vacuum or gravity drains as well as electrical outlets.

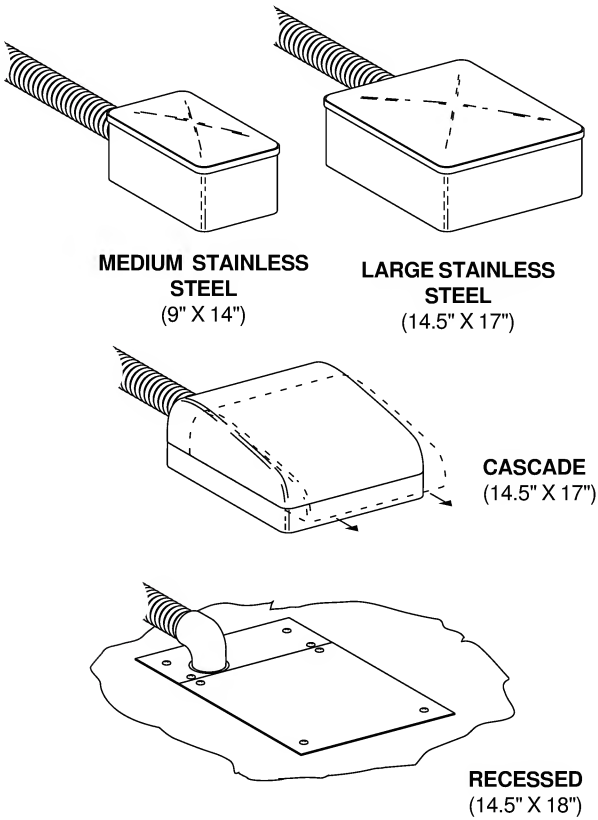

Figure 1. Floor Boxes

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The stainless steel floor box covers lift off for access to the utilities and optional power supplies and/or water heater.

To remove the cover from your Cascade Floor Box, slide the cover forward a little and lift.

The recessed floor box cover is held in place by four screws. Removing the screws will allow you to lift the cover.

Floor Box Controls and Functions

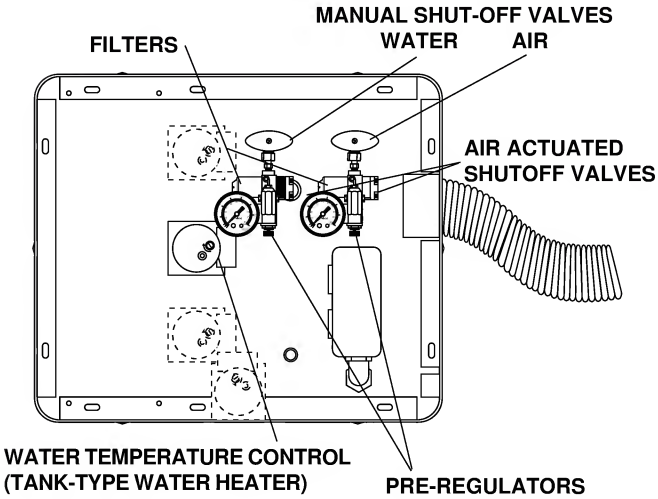

Figure 2. Cascade and Large Floor Boxes

NOTE

Do not use saline solution, mouth rinses, or any chemical solutions not specified in this manual in your municipal water supply. These may damage the water system components and cause the failure of your dental unit. If you need to use such solutions, a water supply systemseparate from your dental unit should be used. As a general rule, water that is suitable for drinking is suitable to use in your delivery system.

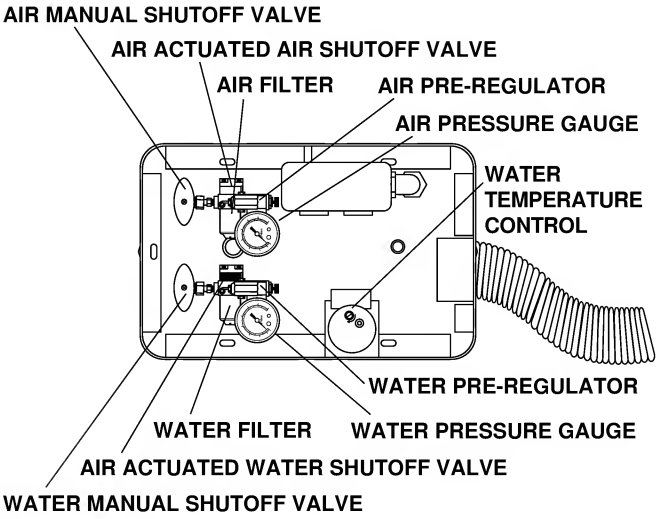

Figure 3. Medium Floor Box

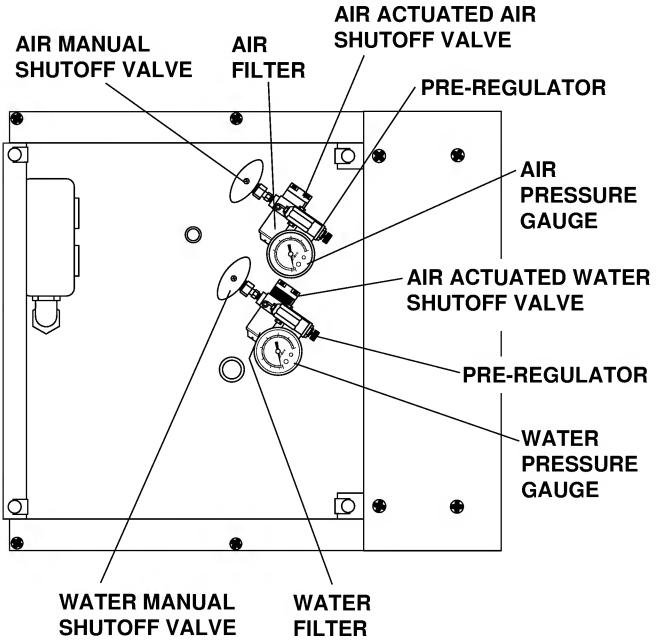

Figure 4. Recessed Floor Box

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Air and Water Manual Shutoff Valves

Shutoff Valves control the air and water to the unit. To prevent leaks, these valves should remain fully open (turned counterclockwise) except while your unit is being serviced.

Air-actuated Air and Water Shutoff Valves

The **Air-actuated Air and Water Shutoff Valves** automatically shut off air and water to the system when the master on/off toggle is in the OFF position. This safety feature prevents water damage in the event the unit should develop a water leak while the unit is unattended.

Air and Water Filters

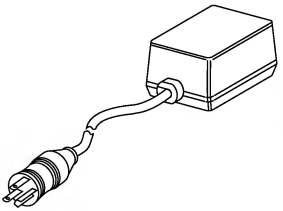
Filters prevent solids from entering the unit. The procedures for checking and replacing the filters are given on pages 10 and 11.

Air and Water Pressure Pre-Regulators

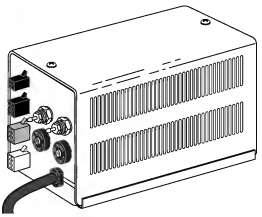
Pre-Regulators control the air and water pressures in the unit. The procedure for adjusting system pressure is given on page 8.

Power Supply

Your system may include A-dec's 17 watt power supply or 300 watt power supply. No cleaning or maintenance is required to maintain the power supply.



17 Watt Power Supply



300 Watt Power Supply

> **NOTE**
> The master on/off toggle switches the control head, dental light, auxiliary cable, and the indicator light on or off.

If a problem arises with the power supply or an A-dec electrical accessory to the power supply, call your authorized A-dec dealer.

Gravity Drain and Air Vent

The **Gravity Drain** (a "T" fitting) *(see Figure 6)* is connected to the office waste drainage system and provides for the disposal of water and debris from the unit.

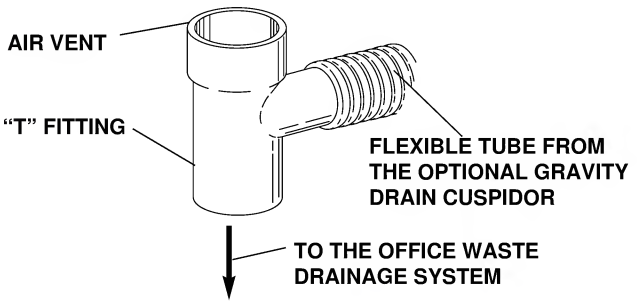


Figure 6. Gravity Drain and Air Vent

The **Air Vent** (the open end of the "T" fitting) prevents air being trapped in the office waste drainage system. If the vent becomes obstructed, waste water and debris may backup into the unit.

If A-dec's optional circulating warm water syringe is included with your unit, a water drip tube will be positioned over the drain air vent. The drip tube is the outlet for warm water supplied to your syringe by the water heater. For more information about your syringe, refer to your ***Autoclavable Syringe Owner's Guide***, *A-dec Publication No. 85.0680.00.*

If A-dec's optional Radius,Cascade, or Decade Cuspidor is included with your unit, a flexible tube from the cuspidor will be connected to the gravity drain. For information about the gravity drain cuspidor, refer to the ***Cascade 7284 and Radius 7285 Cuspidor Owner's Guide***, *A-dec Publication No. 85.2609.00* or ***Decade 7283 Owner's Guide***, *A-dec Publication No. 85.0685.00.*

Vacuum Outlet

The office central vacuum system outlet is located in the floor box. A flexible tube connects your vacuum instruments and optional Cascade or Decade vacuum cuspidor to the outlet.

For information about your assistant's vacuum instruments, refer to your ***Assistant's Instrumentation Owner's Guide***, *A-dec Publication No. 85.2610.00.*

For information about the optional Cascade vacuum drain cuspidor, refer to the ***Cascade 7284 and Radius 7285 Cuspidor Owner's Guide***, *A-dec Publication No. 85.2609.00.*

For information about the optional Decade vacuum drain cuspidor, refer to ***Decade 7283 Owner's Guide***, *A-dec Publication No. 85.0685.00.*

Care Instructions

For recommended asepsis instructions, refer to your ***A-dec Equipment Asepsis Owner's Guide,*** *A-dec Publication No. 85.0696.00.*

System Air and Water Pressure Adjustments

The air and water pre-regulators are located in the floor box. Before making any adjustments, verify that the air compressor is turned on, and that it maintains 80–100 psi pressure in the tank. If it doesn't, refer to the compressor instructions.

> ***NOTE***
>
> When decreasing system air or water pressure, you will not see the air or water pressure gauge in the floor box change until you relieve pressure from the system. Activate the syringe for a few seconds, then check the gauge. Repeat this process each time you make an adjustment to decrease pressure.

1. Be sure that the manual shutoff valves are fully open (counterclockwise). Turn the system on and check the pressure gauges in the floor box *(see Figures 7 and 8)*. Air pressure should be 70–80 psi while water pressure should be 35–40 psi.

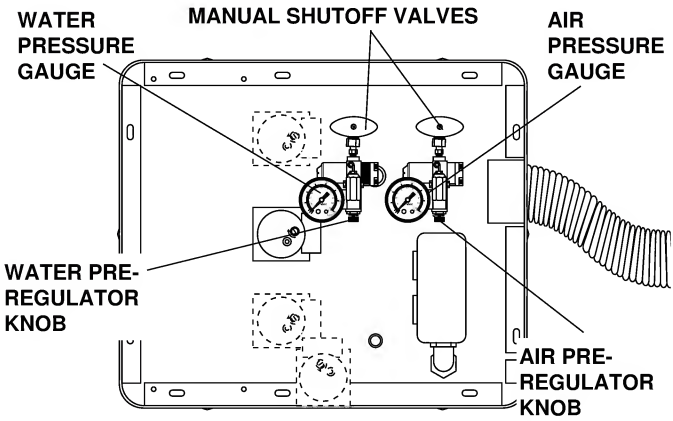


Figure 7. Cascade and Large Floor Box

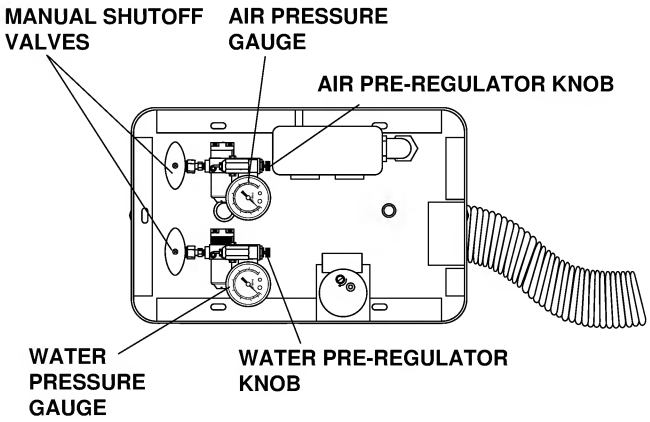


Figure 8. Medium Floor Box

2. While watching the gauges, operate the syringe. If the system air pressure drops by any more than 15 psi, or water pressure by more than 10 psi, check for clogged filters.
3. If adjustment of either the air or water pressure is required, turn the appropriate pre-regulator knob clockwise to increase pressure, or counterclockwise to decrease.

Filter Maintenance

Air and Water Filter Elements

Air and water pass through separate filters before entering the regulators. A filter must be replaced when it becomes sufficiently clogged causing restricted flow to the regulator.

Checking for a Clogged Air Filter

To check for a clogged air filter, flip the master on-off toggle to the ON position and remove the floor box cover. While watching the air pressure gauge in the floor box *(see Figures 7 and 8)*, press the syringe air button. If the air pressure indicated by the gauge drops by more than 15 psi, the filter element is clogged and must be replaced.

Checking for a Clogged Water Filter

To check for a clogged water filter, flip the master on-off toggle on the control head to the ON position, then remove the floor box cover. Watch the water gauge, press the syringe water button. If the water pressure drops by more than 10 psi, the water filter is clogged and must be replaced.

Inspecting the Filters

To inspect or replace a filter element, flip the master on-off toggle to the OFF position, then close the manual shutoff valves. Bleed the system of air and water pressure by operating the syringe buttons until air and water no longer flow. Using a standard (flat-blade) screwdriver, remove the filter housing from the air and/or water pre-regulators assemblies *(see Figure 9)* and remove the filter.

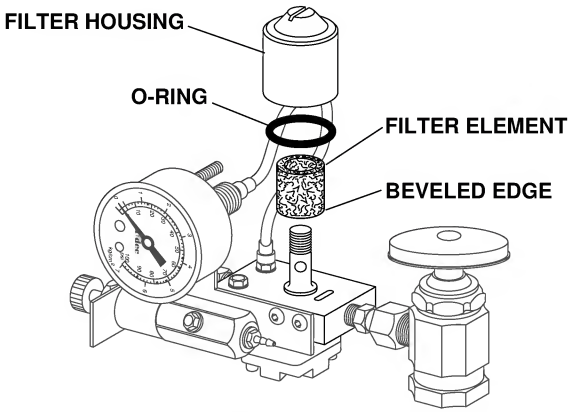


Figure 9. Air or Water Filter Replacement

If the filter is visibly clogged or discolored, you will need to replace it.

When installing a new filter, notice that one end of the filter has a beveled edge. Install the filter with the beveled edge facing the manifold *(see Figure 9)*. The system will not work properly if the filter is installed incorrectly.

Water Screen

The manual water shutoff valve in your floor box *(see Figure 10)* is equipped with a screen to prevent debris from entering the system. You should periodically check and replace this screen to ensure unrestricted water flow to your unit.

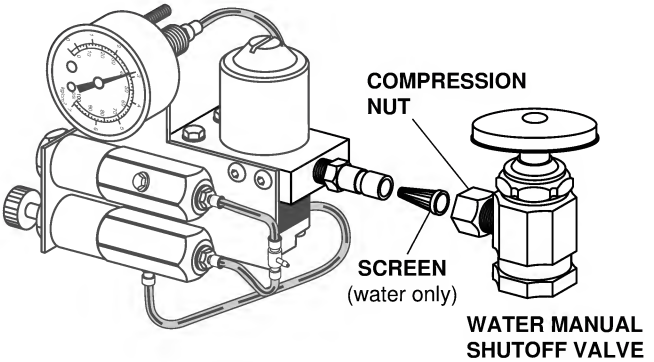


Figure 10. Water Screen Replacement

To remove or replace a screen, first move the master on/off toggle to the OFF position and close the manual water shutoff valve.

Now, using a 5/8" or adjustable wrench, loosen the compression nut on the manual water shutoff valve and pull the water regulator out of the shutoff valve *(see Figure 10)*. Remove the screen and install the replacement screen.

Reposition the water regulator in the manual shutoff valve outlet and tighten the compression nut. Open the manual water shutoff valve and flip the master toggle to the ON position. Check the fittings for leaks.

Maintenance

Equipment Asepsis
Owner's Guide *85.0696.00*
Filter Maintenance ..... *page 10*

Adjustments and Specifications

System Air and Water
Pressure Adjustments ..... *page 8*
Autoclavable Syringe
Owner'sGuide.....*85.0680.00*

Minimum air, water, and vacuum service requirements for proper unit operation:

Air: 2.50 cfm (70.80 l/min) at 80 psi (551 kPa).
Water: 1.50 gpm (5.68 l/min) at 40 psi (276 kPa).
Vacuum: 12 cfm (339.84 l/min) at 8 inches (27 kPa) of mercury.

Specifications are subject to change without notice.

Identification of Symbols

Recognized by Underwriters Laboratories Inc. ® with respect to electric shock, fire and mechanical hazards only in accordance with UL 2601-1. Recognized with respect to electric shock, fire, mechanical and other specified hazards only in accordance with CAN/CSA C22.2, No. 601.1.

UL listed to US (UL 544) and Canadian (CAN/CSA C22.2, No. 125) safety standards.

Classified by Underwriters Laboratories Inc. ® with respect to electric shock, fire and mechanical hazards only in accordance with UL 2601-1. Classified with respect to electric shock, fire, mechanical and other specified hazards only in accordance with CAN/CSA C22.2, No. 601.1.

Conforms to European Directives *(refer to Declaration Statement)*

Protective earth (ground).

Functional earth (ground).

Attention, consult accompanying documents.

TYPE B APPLIED PART.

CLASS II EQUIPMENT.

Classification of Equipment (EN 60601-1)

Type of shock protection:
CLASS I EQUIPMENT
(Dental Chairs, Dental Lights, & Power Supplies)
CLASS II EQUIPMENT
(Chair, Wall, & Cart Mounted Delivery Systems)

Degree of shock protection:
TYPE B APPLIED PART (All products)

Degree of protection against water ingress:
ORDINARY EQUIPMENT (All products)

Mode of operation
CONTINUOUS OPERATION
(All models except Dental Chairs)

Mode of operation
CONTINUOUS OPERATION
WITH INTERMITTENT LOADING (Dental Chairs)

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